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L1	25	(application program\$4 software) with (lifecycle life-cycle (life adj cycle)) with (run\$4 execut\$) with state	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:44
L2	103	((application program\$4 software) with (cycle lifecycle life-cycle (life adj cycle)) with (run\$4 execut\$) with state) same (stat\$3 with (activ\$5 paus\$3 load\$3 destroy\$3))) and ((program\$4 software application) with (manag\$5 control\$4) with (run\$4 execut\$7))	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:43
L3	143	((application program\$4 software) with (cycle lifecycle life-cycle (life adj cycle)) with (run\$4 execut\$) with state) same (stat\$3 with (activ\$5 paus\$3 load\$3 destroy\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:42
L5	5	((application program\$4 software) with (lifecycle life-cycle (life adj cycle)) with (run\$4 execut\$) with state) same ((manag\$5 control\$4) with (activ\$5 paus\$3 load\$3 destroy\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:47
L6	14	((application program\$4 software) with (lifecycle life-cycle (life adj cycle)) with (run\$4 execut\$) with state) with ((manag\$5 control\$4))	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:57
L7	2	I3 and 718/100.cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:58
L8	1	I6 and 718/100.cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:58
L9	0	I6 and 718/104.cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:58
L10	2	I3 and 718/104.cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:58
L11	1	I3 and 717/166.cccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:59

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L12	2	I6 and 717/166.ccis.	US-PGPUB; USPAT; EPO; JPO; DERWENT ; IBM_TDB	OR	ON	2006/11/22 10:59
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Relevance

101 Migrating well engineered Ada 83 applications into newer architecture and reuse based Ac
systems: experiences from Boeing's reuse initiative project
Scott Arthur Moody
December 1996 **Proceedings of the conference on TRI-Ada '96: disciplined software develo
with Ada**
Publisher: ACM Press
Full text available:  pdf(1.25 MB) Additional Information: full citation, references, citations, index terms

102 [Modeling, evaluation, and testing of paradigm instrumentation system](#)
Abdul Waheed, Diane T. Rover, Jeffrey K. Hollingsworth
November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM)**
Supercomputing '96
Publisher: IEEE Computer Society
Full text available:  pdf(225.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

This paper presents a case study of modeling, evaluating, and testing the data collection service (an instrumentation system) of the Paradyn parallel performance measurement tool using well-known performance evaluation and experiment design techniques. The overall objective of the study is to model- and simulation-based evaluation to provide feedback to the tool developers to help them tune system configurations and task scheduling policies that can significantly reduce the ...

103 [XXL: a dual approach for building user interfaces](#)
Eric Lecolinet
November 1996 **Proceedings of the 9th annual ACM symposium on User interface software technology**
Publisher: ACM Press
Full text available:  [pdf\(1.96 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: distributed interfaces, interface builders, iterative development, scripting language and visual equivalence, user interface software

104 Level II technical support in a distributed computing environment

modeling, process-based simulation, timed Petri nets

84 Performance monitoring in a Myrinet-connected SHRIMP cluster

 Cheng Liao, Margaret Martonosi, Douglas W. Clark

August 1998 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**

Publisher: ACM Press

Full text available:  pdf(1.26 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

85 Guidance for the use of the Ada programming language in high integrity systems

 B. A. Wichmann

July 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 4

Publisher: ACM Press

Full text available:  pdf(2.93 MB)

Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Many people have contributed to this, but those who have either attended two recent meetings of the group or have made substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan R. Johnson (University of York, UK), Bernard Carre' (Praxis Critical Systems, UK), Dan Craigen (ORA, Canada), Alan Johnson MoD, UK), Stephen Michell (Canada), Gilles Motet (DGEI/INSA, France), George Roma

86 Version models for software configuration management

 Reidar Conradi, Bernhard Westfechtel

June 1998 **ACM Computing Surveys (CSUR)**, Volume 30 Issue 2

Publisher: ACM Press

Full text available:  pdf(483.54 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

After more than 20 years of research and practice in software configuration management (SCM), constructing consistent configurations of versioned software products still remains a challenge. This paper focuses on the version models underlying both commercial systems and research prototypes. It provides an overview and classification of different versioning paradigms and defines and relates fundamental concepts such as revisions, variants, configurations, and changes. In particular, we focus on the

Keywords: changes, configuration rules, configurations, revisions, variants, versions

87 Using metalevel techniques in a flexible toolkit for CSCW applications

 Paul Dourish

June 1998 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 5 Issue 2

Publisher: ACM Press

Full text available:  pdf(292.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Ideally, software toolkits for collaborative applications should provide generic, reusable components applicable in a wide range of circumstances, which software developers can assemble to produce applications. However, the nature of CSCW applications and the mechanics of group interaction pose a problem. Group interactions are significantly constrained by the structure of the underlying infrastructure below the level at which toolkits typically offer control. This article describes how to

Keywords: consistency control, consistency guarantees, data distribution, divergency, metalevel programming, open implementation, software architecture

88 Workshop on compositional software architectures: workshop report

May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Keywords: CASE, enabling technology, process modeling languages, process-centered software engineering environments, software process

98 [Trace-driven memory simulation: a survey](#)
Richard A. Uhlig, Trevor N. Mudge
June 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 2
Publisher: ACM Press
Full text available:  pdf(636.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

As the gap between processor and memory speeds continues to widen, methods for evaluating system designs before they are implemented in hardware are becoming increasingly important. method, trace-driven memory simulation, has been the subject of intense interest among resea has, as a result, enjoyed rapid development and substantial improvements during the past deca article surveys and analyzes these developments by establishing criteria for evaluating trac ...

Keywords: TLBs, caches, memory management, memory simulation, trace-driven simulation

99 [Report from the NSF workshop on workflow and process automation in information system](#)
Amit Sheth, Dimitrios Georgakopoulos, Stef M. M. Joosten, Marek Rusinkiewicz, Walt Scacchi, Jack Alexander L. Wolf
January 1997 **ACM SIGSOFT Software Engineering Notes**, Volume 22 Issue 1
Publisher: ACM Press
Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

An interdisciplinary research community needs to address challenging issues raised by applying management technology in information systems. This conclusion results from the NSF workshop Workflow and Process Automation in Information Systems which was held at the State Botanica Georgia during May 8-10, 1996. The workshop brought together active researchers and practiti several communities, with significant representation from database and distributed systems, so

100 [Task dependence and termination in Ada](#)
Laura K. Dillon
January 1997 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 6 Number 1
Publisher: ACM Press
Full text available:  pdf(685.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

This article analyzes the semantics of task dependence and termination in Ada. We use a control Ada tasking in examining the implications of and possible motivation for the rules that determine procedures and tasks terminate during execution of an Ada program. The termination rules prevent data that belong to run-time instances of scope units from being deallocated prematurely, but t unnecessarily conservative in this regard. For task instances that are created by i ...

Keywords: Ada tasking, distributed termination, master/dependent relation, task termination, execution model

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72 Databases in software engineering: a roadmap

 Klaus R. Dittrich, Dimitrios Tombros, Andreas Geppert

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available:  pdf(1.33 MB) Additional Information: [full citation](#), [references](#), [index terms](#)

73 Software maintenance and evolution: a roadmap

 Keith H. Bennett, Václav T. Rajlich

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available:  pdf(1.40 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

74 Formal specification: a roadmap

 Axel van Lamsweerde

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Publisher: ACM Press

Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

75 Task force report and recommendations

 January 2000 **ACM SIGMIS Database**, Volume 31 Issue 1

Publisher: ACM Press

Full text available:  pdf(4.42 MB) Additional Information: [full citation](#), [index terms](#)

76 The use of multithreading for exception handling

Craig B. Zilles, Joel S. Emer, Gurindar S. Sohi

November 1999 **Proceedings of the 32nd annual ACM/IEEE international symposium on Microarchitecture**

Publisher: IEEE Computer Society

Full text available:  pdf(1.49 MB)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)
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Common hardware exceptions, when implemented by trapping, unnecessarily serialize program in dynamically scheduled superscalar processors. To avoid the consequences of trapping the main thread, multithreaded CPUs can exploit control and data independence by executing the exception in a separate hardware context. The main thread doesn't squash instructions after the exception instruction, conserving fetch bandwidth and allowing execution of instructions independent of the exception ...

77 PRIME—toward process-integrated modeling environments: 1

 Klaus Pohl, Klaus Weidenhaupt, Ralf Dömges, Peter Haumer, Matthias Jarke, Ralf Klamma

October 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Number 4

Publisher: ACM Press

Full text available:  pdf(1.15 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Research in process-centered environments (PCEs) has focused on project management support and neglected method guidance for the engineers performing the (software) engineering process. It was dominated by the search for suitable process-modeling languages and enactment mechanisms.

Tim Leehane
September 1996 **Proceedings of the 24th annual ACM SIGUCCS conference on User services**
Publisher: ACM Press
Full text available: [pdf\(5.73 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

105 Reusable software components

Trudy Levine
July 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 4
Publisher: ACM Press
Full text available: [pdf\(2.45 MB\)](#) Additional Information: [full citation](#), [index terms](#)

106 TIPSTER architecture: TIPSTER text phase II architecture concept

Architecture Committee
May 1996 **Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996**
Publisher: Association for Computational Linguistics
Full text available: [pdf\(1.28 MB\)](#) Additional Information: [full citation](#), [abstract](#)

The TIPSTER Architecture is a software architecture for providing Document Detection (i.e. Info Retrieval and Message Routing) and Information Extraction functions to text handling applications. The high level architecture is described in an Architecture Design Document. In May 1996, when the architecture design is complete, an Interface Control Document will be provided specifying the functional requirements, content of all inputs and outputs to the TIPSTER modules.

107 TIPSTER architecture: TIPSTER text phase II configuration management plan

Architecture Committee
May 1996 **Proceedings of a workshop on held at Vienna, Virginia: May 6-8, 1996**
Publisher: Association for Computational Linguistics
Full text available: [pdf\(909.69 KB\)](#) Additional Information: [full citation](#), [abstract](#)

This document presents the TIPSTER Text Phase II Configuration Management (CM) Plan for identifying, controlling, and auditing the TIPSTER Architecture status and configuration definition.

108 Experiences with building distributed debuggers

Michael S. Meier, Kevan L. Miller, Donald P. Pazel, Josyula R. Rao, James R. Russell
January 1996 **Proceedings of the SIGMETRICS symposium on Parallel and distributed tools**
Publisher: ACM Press
Full text available: [pdf\(1.34 MB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

109 DECALS: distributed experiment control and logging system

Alex Hubbard, C. Murray Woodside, Cheryl Schramm
November 1995 **Proceedings of the 1995 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press

Full text available: [pdf\(287.39 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In developing distributed applications and services there is a need to be able to set up and run experiments in a distributed environment. The experiment might be to obtain performance data, to test the processes' behaviour or to evaluate an application management strategy. Common requirements are • to load and run multiple versions of at least some of the software, often on multiple nodes of a network, • to initialize the experiments in a well-controlled way, so the tests may be repeatable, • ...

March 1995 ACM Transactions on Programming Languages and Systems (TOPLAS), Volume 17, Number 2
Publisher: ACM Press
Full text available: [PDF](#)(2.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Compiling for distributed-memory machines has been a very active research area in recent years. This work has concentrated on programs that use arrays as their primary data structures. To date, work has been done to address the problem of supporting programs that use pointer-based dynamic structures. The techniques developed for supporting SPMD execution of array-based programs is based on the fact that arrays are statically defined and directly addressable. Recursive data structures ...

Keywords: dynamic data structures

115 User interface software tools

Brad A. Myers

March 1995 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 2 Issue 1

Publisher: ACM Press

Full text available: [pdf\(3.25 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Almost as long as there have been user interfaces, there have been special software systems aimed at helping design and implement the user interface software. Many of these tools have demonstrated productivity gains for programmers, and have become important commercial products. Others have proven less successful at supporting the kinds of user interfaces people want to build. This article discusses the different kinds of user interface software tools, and investigates why some ...

Keywords: interface builders, toolkits, user interface development environments, user interfac

116 A concurrency analysis tool suite for Ada programs: rationale, design, and preliminary experiments

Michal Young, Richard N. Taylor, David L. Levine, Kari A. Nies, Debra Brodbeck

January 1995 ACM Transactions on Software Engineering and Methodology (TOSEM), Volume 4, Number 4

Publisher: ACM Press

Full text available: [pdf\(2.93 MB\)](#). Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Cats (Concurrency Analysis Tool Suite) is designed to satisfy several criteria: it must analyze implementation-level Ada source code and check user-specified conditions associated with program code; it must be modularized in a fashion that supports flexible composition with other tool components including integration with a variety of testing and analysis techniques; and its performance and scalability must be sufficient for analysis of real application programs. Meeting these objectives ...

Keywords: Ada, concurrency, software development environments, static analysis, tool integration

117 The case of the killer robot (part 2)

 Richard G. Epstein

December 1994 ACM SIGCAS Computers and Society, Volume 24 Issue 4

Publisher: ACM Press

Full text available: pdf(2.22 MB) Additional Information: [full citation](#), [citations](#), [index terms](#)

118 An object-oriented, distributed architecture for large-scale Ada systems

 Phillippe Kruchten, Christopher J. Thompson

November 1994 Proceedings of the conference on TRI-Ada '94

Publisher: ACM Press

Full text available:  pdf(1.14 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents an architectural model ideally suited for the description of large, distributed and control systems. This model is organized around multiple dimensions (or views) of software architecture and is used to describe the software architecture of a family of automated air traffic systems currently under development by Hughes Aircraft of Canada. Some of the features of the systems are described, and in particular the mechanism used for transparent acc ...

119 Software understanding through integrated structural and run-time analysis

Kenny Wong

October 1994 **Proceedings of the 1994 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available:  pdf(179.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The problem of software evolution is particularly acute. It requires a comprehensive understanding of the whole software system, including its architectural and run-time aspects. Reverse engineering techniques have traditionally focused on static information, using compiler-based technologies for lexical, structural, and semantic analysis. There is little emphasis on runtime information. However, performing optimizing, testing, and debugging tasks for evolution require run ...

120 An annotated bibliography of interactive program steering

 Weiming Gu, Jeffrey Vetter, Karsten Schwan

September 1994 **ACM SIGPLAN Notices**, Volume 29 Issue 9

Publisher: ACM Press

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